SUGGESTED SPECIFICATIONS
SECTION 10 26 00
C/S Acrovyn® Model SCR-64M

Part 1 - General

1.01 Summary

A. This section includes the following types of wall protection systems:
  1. Crash Rails

B. Related sections: The following sections contain requirements related to this section:
  1. Handrails, Bumper Guards, Corner Guards, Accent Rails, Wall Covering, Wall Panels, Door Protection; refer to section 10 26 00 "Wall and Door Protection"
  2. Blocking in walls for fasteners; refer to section 09 22 00 "Supports for Plaster and Gypsum Board"

1.02 References

A. National codes (IBC, UBC, SBCCI, BOCA and Life Safety)
B. American Society for Testing and Materials (ASTM)
C. Underwriters Laboratories (UL)

1.03 Submittals

A. General: Submit the following in accordance with conditions of contract and Division 1 specification section 01 33 00 "Submittal Procedures".
B. Product data and detailed specifications for each system component and installation accessory required, including installation methods for each type of substrate.
C. Shop drawings showing locations, extent and installation details of crash rails. Show methods of attachment to adjoining construction.
D. Samples for verification purposes: Submit the following samples, as proposed for this work, for verification of color, texture, pattern and end cap attachment and alignment.
  1. 12" (304.8mm) long sample of each model specified including end cap and mounting hardware.
E. Product test reports from a qualified independent testing laboratory showing compliance of each component with requirements indicated.
F. Maintenance data for wall protection system components for inclusion in the operating and maintenance manuals specified in Division 1.

1.04 Quality Assurance

A. Installer qualifications: Engage an installer who has no less than 3 years experience in installation of systems similar in complexity to those required for this project.
B. Manufacturer's qualifications: Not less than 5 years experience in the production of specified products and a record of successful in-service performance.
C. Code compliance: Assemblies should conform to all applicable codes including IBC, UBC, SBCCI, BOCA and Life Safety.
D. Fire performance characteristics: Provide wall protection system components with UL label indicating that they are identical to those tested in accordance with ASTM-E84 (CAN/ULC S102.2) for Class 1 characteristics listed below:
  1. Flame spread: 25 or less
  2. Smoke developed: 450 or less

International Fire Ratings Include:

UK: BS476-part 7, Class 1.
France: MI.
Spain: MI.
Germany: DIN4102, BI Classification.
Italy: Class 1.

E. Impact Strength: Provide assembled wall protection units that have been tested in accordance with the applicable provisions of ASTM F476.

F. Chemical and stain resistance: Provide wall protection system components with chemical and stain resistance in accordance with ASTM D-1308.

G. Color match: Provide wall protection components that are color matched in accordance with the following:

1. Delta Ecmc of no greater than 1.0 using CIELab color space. (Specifier note: Construction Specialties' colors are matched under cool white fluorescent lighting and computer controlled within manufacturing tolerances. Color may vary if alternate lighting sources are present).

H. Single source responsibility: Provide all components of the wall protection system manufactured by the same company to ensure compatibility of color, texture and physical properties.

1.05 Delivery, Storage and Handling

A. Deliver materials to the project site in unopened original factory packaging clearly labeled to show manufacturer.

B. Store materials in original, undamaged packaging in a cool, dry place out of direct sunlight and exposure to the elements. A minimum room temperature of 40°F (4°C) and a maximum of 100°F (38°C) should be maintained.

C. Material must be stored flat.

1.06 Project Conditions

A. Materials must be acclimated in an environment of 65°-75°F (18°-24°C) for at least 24 hours prior to beginning the installation.

B. Installation areas must be enclosed and weatherproofed before installation commences.

Part 2 - Products

2.01 Manufacturers

A. Interior surface protection products specified herein and installed on the submittal drawings shall be manufactured by Construction Specialties, Inc.

2.02 Materials

A. Vinyl/Acrylic: Extruded material should be high impact Acrovyn with pebblette grain texture, nominal .078" (1.98mm) thickness. Chemical and stain resistance should be per ASTM D-1308 standards as established by the manufacturer. Colors to be indicated in the finish schedule from one of manufacturer’s standard color range.

B. Aluminum Retainers: Extruded aluminum retainers should be 6063-T6 alloy, nominal .090" (2.29mm) thickness. Minimum strength and durability properties as specified in ASTM B221.

C. Fasteners: All fasteners to be non-corrosive and compatible with aluminum retainers. All necessary fasteners to be supplied by the manufacturer.

2.03 Crash Rails

A. Vinyl/Acrylic crash rails to be Acrovyn by Construction Specialties: Surface, bumper or extended mounted assembly consisting of a continuous aluminum retainer or aluminum clips with snap-on Acrovyn cover and integral shock absorbing cushions. Color matched end caps and corners to be removable for ease of replacement. Attachment hardware shall be appropriate for wall conditions.

1. Model SCR-64M 8" h (203.2mm) surface mounted crash rail. Rail to be mounted with a continuous aluminum retainer with flexible cushion. Select from one of (60) Acrovyn solid colors or (16) Chameleon patterned colorways which include (14) woodgrains and (2) metals.

2.04 Fabrication

A. General: Fabricate wall protection systems to comply with requirements indicated for design, dimensions, detail, finish and member sizes.

Part 3 - Execution

3.01 Examination

A. Verification of conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.

1. Do not proceed until unsatisfactory conditions have been corrected.

3.02 Preparation

A. Surface preparation: Prior to installation, clean substrate to remove dirt, debris and loose particles. Perform additional preparation procedures as required by manufacturer's instructions.

B. Protection: Take all necessary steps to prevent damage to material during installation as required in manufacturer’s installation instructions.

3.03 Installation

A. Install the work of this section in strict accordance with the manufacturer's recommendations, using only approved mounting hardware, and locating all components firmly into position, level and plumb.

B. Temperature at the time of installation must be between 65°-75°F (18°-24°C) and be maintained for at least 48 hours after the installation.

C. Where splices occur in horizontal runs, splice aluminum retainer and cover at different locations along the run.

3.04 Cleaning

A. General: Immediately upon completion of installation, clean covers and accessories in accordance with manufacturer’s recommended cleaning method.

B. Remove surplus materials, rubbish and debris resulting from installation as work progresses and upon completion of work.

3.05 Protection

A. Protect installed materials to prevent damage by other trades. Use materials that may be easily removed without leaving residue or permanent stains.